



1000546

## CORRECTIVE ACTION STABILIZATION QUESTIONNAIRE

Completed by: Mary WojciechowskiDate: April 24, 1993

## Background Facility Information

Facility Name: Rock Island ArsenalEPA Identification No.: IL5 210 021 833Location (City, State): Rock Island, IllinoisFacility Priority Rank: High

1. Is this checklist being completed for one solid waste management unit (SWMU), several SWMUs, or the entire facility? Explain.

Entire facility which consists of 252 SWMUs and 6 AOCs.

## Status of Corrective Action Activities at the Facility

2. What is the current status of HSWA corrective action activities at the facility?

- ☐ No corrective action activities initiated (Go to 5)
- ☒ RCRA Facility Assessment (RFA) or equivalent completed
- ☐ RCRA Facility Investigation (RFI) underway
- ☐ RFI completed
- ☐ Corrective Measures Study (CMS) completed
- ☐ Corrective Measures Implementation (CMI) begun or completed
- ☐ Interim Measures begun or completed

3. If corrective action activities have been initiated, are they being carried out under a permit or an enforcement order?

- ☐ Operating permit
- ☐ Post-closure permit
- ☐ Enforcement order
- ☒ Other (Explain)

All past corrective actions appear to have been voluntary.

4. Have interim measures, if required or completed [see Question 2], been successful in preventing the further spread of contamination at the facility?

- ☐ Yes
- ☐ No
- ☐ Uncertain; still underway
- ☒ Not required

Additional explanatory notes:

Interim measures have not been required or completed.

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### Facility Releases and Exposure Concerns

5. To what media have contaminant releases from the facility occurred or been suspected of occurring?

- ☒ Groundwater
- ☒ Surface water
- ☐ Air
- ☒ Soils

6. Are contaminant releases migrating off-site?

- ☐ Yes; Indicate media, contaminant concentrations, and level of certainty.

Groundwater: \_\_\_\_\_

Surface water: \_\_\_\_\_

Air: \_\_\_\_\_

Soils: \_\_\_\_\_

- ☐ No
- ☒ Uncertain

7a. Are humans currently being exposed to contaminants released from the facility?

- ☐ Yes (Go to 8a)
- ☐ No
- ☒ Uncertain

Additional explanatory notes:

It is not known if contaminants are migrating off site.

7b. Is there a potential for human exposure to the contaminants released from the facility over the next 5 to 10 years?

- ☒ Yes
- ☐ No
- ☐ Uncertain

Additional explanatory notes:

This facility occupies a 928-acre island in the Mississippi River. The river is used for public water supply and recreational purposes.

8a. Are environmental receptors currently being exposed to contaminants released from the facility?

- ☐ Yes (Go to 9)
- ☐ No
- ☒ Uncertain

Additional explanatory notes:

It is not known if contaminants are migrating off site.

8b. Is there a potential that environmental receptors could be exposed to the contaminants released from the facility over the next 5 to 10 years?

- ☒ Yes
- ☐ No
- ☐ Uncertain

Additional explanatory notes:

The facility occupies a 928-acre island in the Mississippi River.

### Anticipated Final Corrective Measures

9. If already identified or planned, would final corrective measures be able to be implemented in time to adequately address any existing or short-term threat to human health and the environment?

☐ Yes  
☒ No  
☐ Uncertain

Additional explanatory notes:

Final corrective measures have not been identified or planned.

10. Could a stabilization initiative at this facility reduce the present or near-term (e.g., less than two years) risks to human health and the environment?

☐ Yes  
☐ No  
☒ Uncertain

Additional explanatory notes:

Further investigation is needed to determine the nature and extent of contamination and to confirm the existence of a risk to human health and the environment.

11. If a stabilization activity were not begun, would the threat to human health and the environment significantly increase before final corrective measures could be implemented?

☐ Yes  
☐ No  
☒ Uncertain

Additional explanatory notes:

Further investigation is needed to determine the nature and extent of contamination and to confirm the existence of a risk to human health and the environment.

### Technical Ability to Implement Stabilization Activities

12. In what phase does the contaminant exist under ambient site conditions? Check all that apply.

☒ Solid  
☐ Light non-aqueous phase liquids (LNAPLs)  
☐ Dense non-aqueous phase liquids (DNAPLs)  
☒ Dissolved in groundwater or surface water  
☐ Gaseous  
☐ Other \_\_\_\_\_

13. Which of the following major chemical groupings are of concern at the facility?

☒ Volatile organic compounds (VOCs) and/or semi-volatiles  
☒ Polynuclear aromatics (PAHs)  
☒ Pesticides  
☒ Polychlorinated biphenyls (PCBs) and/or dioxins  
☒ Other organics  
☒ Inorganics and metals  
☒ Explosives  
☐ Other \_\_\_\_\_

14. Are appropriate stabilization technologies available to prevent the further spread of contamination, based on contaminant characteristics and the facility's environmental setting? [See Attachment A for a listing of potential stabilization technologies.]

☐ Yes; Indicate possible course of action.

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☒ No; Indicate why stabilization technologies are not appropriate; then go to Question 18.

Further investigation is needed to determine the nature and extent of contamination and to confirm the existence of a risk to human health and the environment.

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15. Has the RFI, or another environmental investigation, provided the site characterization and waste release data needed to design and implement a stabilization activity?

☐ Yes  
☐ No

If No, can these data be obtained faster than the data needed to implement the final corrective measures?

☐ Yes  
☐ No

#### Timing and Other Procedural Issues Associated with Stabilization

16. Can stabilization activities be implemented more quickly than the final corrective measures?

☐ Yes  
☐ No  
☐ Uncertain

Additional explanatory notes:

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17. Can stabilization activities be incorporated into the final corrective measures at some point in the future?

☐ Yes  
☐ No  
☐ Uncertain

Additional explanatory notes:

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## Conclusion

18. Is this facility an appropriate candidate for stabilization activities?

- ☐ Yes
- ☐ No, not feasible
- ☐ No, not required
- ☒ Further investigation necessary

Explain final decision, using additional sheets if necessary.

The following information was obtained from a 1990 RFA report by IEPA.

This facility occupies a 928-acre island in the Mississippi River. It has operated for over 100 years.  
There have been numerous releases to soil from past land disposal practices and waste handling practices.  
There is a strong potential for release to groundwater and surface water.

Further investigation which includes extensive sampling of soil, groundwater, sediment, and surface  
water, as well as integrity testing at several SWMUs, is needed before appropriate stabilization activities  
can be selected.



DEPARTMENT OF THE ARMY Mrs. LaFrenz/mah/  
ROCK ISLAND ARSENAL (309) 794-5504  
ROCK ISLAND, ILLINOIS 61299-5000

REPLY TO  
ATTENTION OF:

January 14, 1985

SMCRI-EN

United States Environmental Protection Agency  
Region V  
ATTN: Mr. Pierard  
RCRA Activities  
P.O. A3587  
Chicago, Illinois 60690-3587

IL5 2100218336, TSD, PA

Dear Mr. Pierard:

The purpose of this letter is to provide the information you requested in a phone conversation with Kathy LaFrenz on January 7, 1985, relative to the capital cost of the current hazardous waste storage areas, i.e., the cost of original construction plus maintenance and improvements made to date.

The total capital cost of Buildings 116, 138, 154, 144, and 242 is \$431,759.34. The proposed Building 169 is estimated to cost \$173,000.

The amendment of the Rock Island Arsenal Part A permit application to include the proposed Building 169 complies with the requirements for changes during interim status, 40 CFR part 270.72, because the proposed building will cost less than 50% of the capital cost of the current hazardous waste storage areas.

Further information concerning this correspondence may be obtained from the Environmental Coordinator's Office, addressed as follows: Commander, Rock Island Arsenal, ATTN: SMCRI-ENM/ Mrs. LaFrenz, Rock Island, Illinois 61299-5000 or telephone: (309) 794-5504, or FTS 367-5504.

Sincerely,

Walter M. Kisner  
Director, Engineering Directorate

RECEIVED

JAN 22 1985

WMD-RAIU  
EPA, REGION V